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OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/942,407

DATE: 09/18/2001
TIME: 16:20:49

Input Set : D:\30062-20049.txt
Output Set: N:\CRF3\09182001\I942407.raw

4 <110> APPLICANT: Kosan Biosciences, Inc.
 5 Santi, Daniel
 6 Peck, Larry
 7 Dayem, Linda
 8 Kealey, James
 10 <120> TITLE OF INVENTION: ISOLATED GENE FOR METHYLMALONYL COA EPIMERASE AND USES
 THEREOF
 13 <130> FILE REFERENCE: 30062-20049.10
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/942,407
 C--> 16 <141> CURRENT FILING DATE: 2001-08-29
 18 <150> PRIOR APPLICATION NUMBER: US 09/699,136
 19 <151> PRIOR FILING DATE: 2000-10-27
 21 <150> PRIOR APPLICATION NUMBER: US 60/161,414
 22 <151> PRIOR FILING DATE: 1999-10-25
 24 <150> PRIOR APPLICATION NUMBER: US 60/161,703
 25 <151> PRIOR FILING DATE: 1999-10-27
 27 <150> PRIOR APPLICATION NUMBER: US 60/206,082
 28 <151> PRIOR FILING DATE: 2000-05-18
 30 <160> NUMBER OF SEQ ID NOS: 2
 32 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 34 <210> SEQ ID NO: 1
 35 <211> LENGTH: 447
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Artificial Sequence
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: Isolated and recombinant form of the full epimerase gene sequence ✓
 41
 43 <221> NAME/KEY: CDS
 44 <222> LOCATION: (1)...(444)
 46 <400> SEQUENCE: 1
 47 atg agt aat gag gat ctt ttc atc tgt atc gat cac gtg gca tat gcg 48
 48 Met Ser Asn Glu Asp Leu Phe Ile Cys Ile Asp His Val Ala Tyr Ala
 49 1 5 10 15
 51 tgc ccc gac gcc gac gag gct tcc aag tac tac cag gag acc ttc ggc 96
 52 Cys Pro Asp Ala Asp Glu Ala Ser Lys Tyr Tyr Gln Glu Thr Phe Gly
 53 20 25 30
 55 tgg cat gag ctc cac cgc gag gag aac ccg gag cag gga gtc gtc gag 144
 56 Trp His Glu Leu His Arg Glu Glu Asn Pro Glu Gln Gly Val Val Glu
 57 35 40 45
 59 atc atg atg gcc ccg gct gcg aag ctg acc gag cac atg acc cag gtt 192
 60 Ile Met Met Ala Pro Ala Ala Lys Leu Thr Glu His Met Thr Gln Val
 61 50 55 60
 63 cag gtc atg gcc ccg ctc aac gac gag tcg acc gtt gcc aag tgg ctt 240
 64 Gln Val Met Ala Pro Leu Asn Asp Glu Ser Thr Val Ala Lys Trp Leu
 65 65 70 75 80
 67 gcc aag cac aat ggt cgc gcc gga ctg cac cac atg gca tgg cgt gtc 288
 68 Ala Lys His Asn Gly Arg Ala Gly Leu His His Met Ala Trp Arg Val
 69 85 90 95

file:///C:/CrF3/Outhold/VsrI942407.htm

9/18/01

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71 gat gac atc gac gcc gtc agc gcc acc ctg cgc gag cgc ggc gtg cag 336
72 Asp Asp Ile Asp Ala Val Ser Ala Thr Leu Arg Glu Arg Gly Val Gln
73 100 105 110
75 ctg ctg tat gac gag ccc aag ctc ggc acc ggc ggc aac cgc atc aac 384
76 Leu Leu Tyr Asp Glu Pro Lys Leu Gly Thr Gly Gly Asn Arg Ile Asn
77 115 120 125
79 ttc atg cat ccc aag tcg ggc aag ggc gtg ctc atc gag ctc acc cag 432
80 Phe Met His Pro Lys Ser Gly Lys Gly Val Leu Ile Glu Leu Thr Gln
81 130 135 140
83 tac ccg aag aac tga 447
84 Tyr Pro Lys Asn
85 145
88 <210> SEQ ID NO: 2
89 <211> LENGTH: 148
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Deduced amino acid sequence of the epimerase gene ✓
95 sequence
97 <400> SEQUENCE: 2
98 Met Ser Asn Glu Asp Leu Phe Ile Cys Ile Asp His Val Ala Tyr Ala
99 1 5 10 15
100 Cys Pro Asp Ala Asp Glu Ala Ser Lys Tyr Tyr Gln Glu Thr Phe Gly
101 20 25 30
102 Trp His Glu Leu His Arg Glu Glu Asn Pro Glu Gln Gly Val Val Glu
103 35 40 45
104 Ile Met Met Ala Pro Ala Ala Lys Leu Thr Glu His Met Thr Gln Val
105 50 55 60
106 Gln Val Met Ala Pro Leu Asn Asp Glu Ser Thr Val Ala Lys Trp Leu
107 65 70 75 80
108 Ala Lys His Asn Gly Arg Ala Gly Leu His His Met Ala Trp Arg Val
109 85 90 95
110 Asp Asp Ile Asp Ala Val Ser Ala Thr Leu Arg Glu Arg Gly Val Gln
111 100 105 110
112 Leu Leu Tyr Asp Glu Pro Lys Leu Gly Thr Gly Gly Asn Arg Ile Asn
113 115 120 125
114 Phe Met His Pro Lys Ser Gly Lys Gly Val Leu Ile Glu Leu Thr Gln
115 130 135 140
116 Tyr Pro Lys Asn
117 145

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/942,407

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Input Set : D:\30062-20049.txt
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L:15 M:270 C: Current Application Number differs, Replaced Current Application Number
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date